ROGOVIN, Z.A.; THEYVAS, M.G.; YASHUNSKAYA, A.G.

The reactivity of various functional groups in the cellulose macro-molecule. Trudy Konf. Vysokomolekul. Soedineniyam 4-oy Konf., Moscow 148, 36-55.
(CA 47 no.14:7207 153)

1. Moscow Textile Inst.

 bonds between the macromolecules).

Submitted

"internal" acetals of dialdehydecellulose (acetal dialdehydecellulose and methyl alcohol and the

YASHUNSKAYA, A.

PA 67/49165

USSR/Chemistry - Cellulose Compounds Esters

Aug 49

"Preparation of Dialdehyde-Cellulose Compounds and Their Esters," A. G. Yashunskaya, N. N. Shorygina,

"Zhur Prik Khim" Vol XXII, No 8

Z. A. Rogovin, 9 pp

esters, irrespective of the amount of aldehyde aldehyde groups were present. droxyl groups in the macromolecule, and examined the a greatly reduced solubility in acetone whenever products. The derived nitric acid esters evidenced varying percentages of aldehyde and secondary hy-Performed the oxidation of dialdehyde-cellulose with In the acetic acid 67/49165

USSR/Chemistry - Cellulose Compounds (Contd)

acetylcellulose. Further investigation of the

relation to the number of acetyl groups in trigroups contained, the quantity of acetic acid bore

phenomena exhibited by the esters of these two acids

Investigated the complex acetals of

was advised.

Aug 49

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962220014-4"

XASHUNSKAYA, A. L.

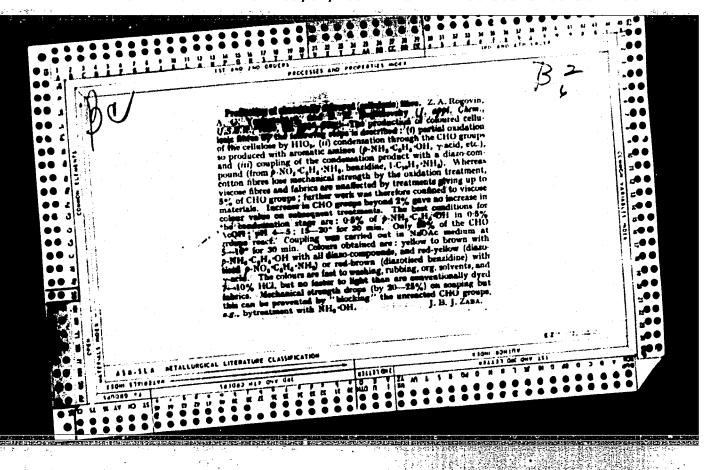
USSR/Chocistry - Cellulose Esters, of Cellulose Aug. 49

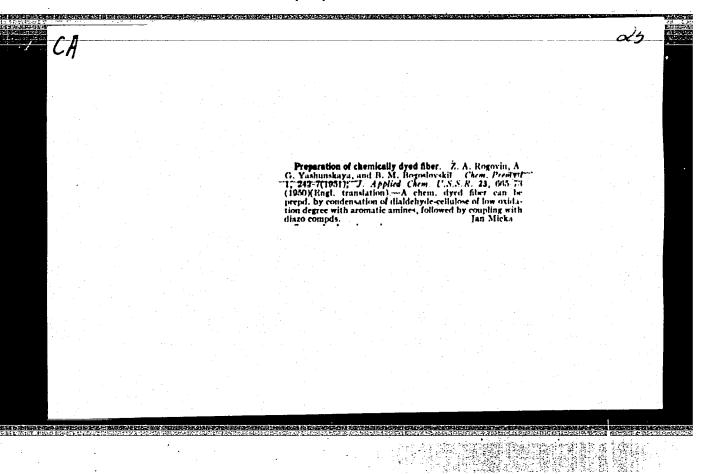
"Effect of the Nature of Functional Groups in the Facromolecule of Cellulose on the Properties of the Collulose and the Esters Porived From Them," Z. A. Fogovin, N. N. Shorygina, A. G. Yashunskaya, E. G. Treyvas, Chair of Synthetic Fiber, Poscow Textile Inst, 72 pp

"Zhur Prik Khim" Vol XXII, No 8

Investigated modified compounds of cellulose, subjected to selective exidation of the isolated hydroxyl groups into aldehyde and carboxyl groups, to show that the presence of a small quantity of either of these two groups in a macromolecule of cellulose sharply affects the solubilities of the derived nitric and acetic soid enters. Suggests chemical isomerism of the molecule of modified cellulose as one of the main factors in determining the solubility of enters and their other properties. Esterification of polymenic acid not only affects its properties but also the configuration of the secondary hydroxyl groups in the polysaccharide molecule. Submitted 18 Sep 48.

PA 67/49T66





USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6250

Author: Konkin, A. A., Yashunskaya, A. G., Bychkova, Ye. M.

Institution: All-Union Scientific Research Institute of Synthetic Fibers

Title: Effect of Concentration of Polysaccharides in Solution on the Rate of Their Hydrolysis

Original

142040200:6,45

Publication: Nauch.-issled. tr. Vses. n.-i. in-ta iskusstv. volokna, 1955, No 2,

Abstract: Determined were the rate of hydrolysis constants of methylcellulose (I), amylose (II) and lactose (III), on hydrolysis with a H2SO1 solution, at different concentrations of these substances in solution. Changes in concentration of I, II and III, in solution, have a relatively slight effect on the hydrolysis rate of the above-stated substances. On an increase of the concentration by 30 times the hydrolysis rate of I is decreased by 2.1 times, that of II by 1.6 times and that of III by 1.7 times.

Card 1/1

DHUNSKAYA,M.C.

USSR/Chemical Technology. Chemical Products and Their Application -- Synthetic fibers, I-24

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6329

Author: Yashunskaya, A. G., Shulyatnikova, N. V.

Institution: All-Union Scientific Research Institute of Synthetic Fibers

Title: Acid Treatment of Viscose Cellulose

Original

Publication: Nauch.-issled. tr. Vses. n.-1. in-t iskusstv. volokna, 1955, No 2,

Abstract: Treatment of viscose cellulose with dilute solution of HCl, while heating, results in an improvement of cellulose reactivity, as concerns viscose formation, but is associated with a lowering of alphacellulose content. On treatment with HCl solution (1.8 g/liter, 700), after 2-3 hours the reactivity is increased from 130/11 to

90/11-70/11, and after 5-6 hours to 70/11-50/11. At the same time viscosity of the cellulose is decreased by 36-63 mpoise, the degree of polymerization (DP) by 200-300, alpha-cellulose content by

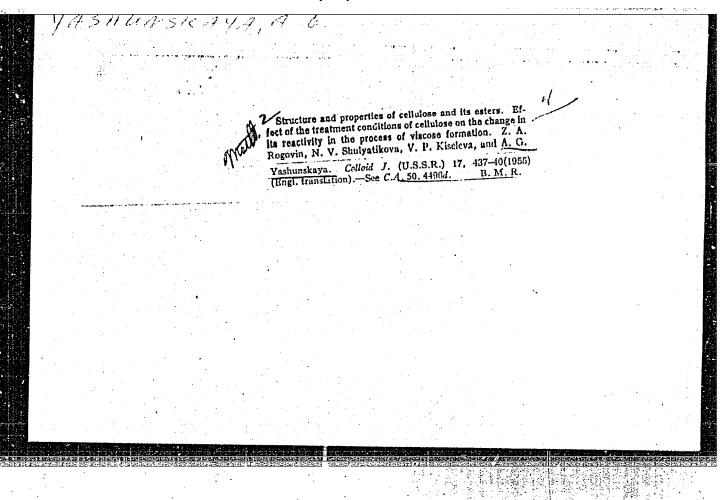
Card 1/2

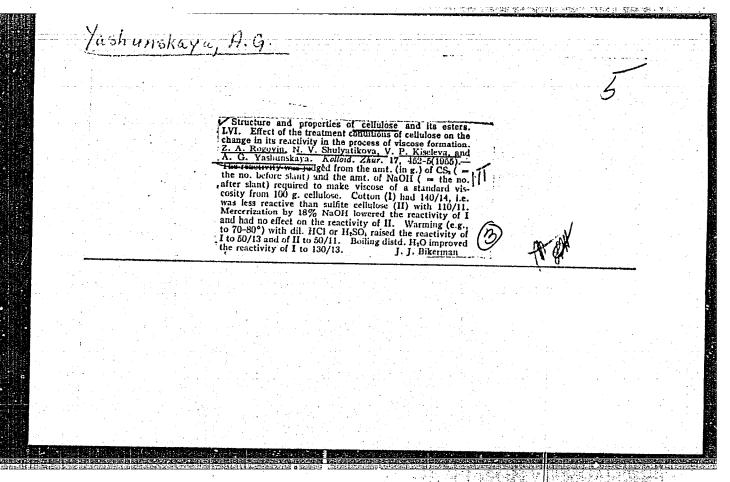
USSR/Chemical Technology. Chemical Products and Their Application -- Synthetic fibers, I-24

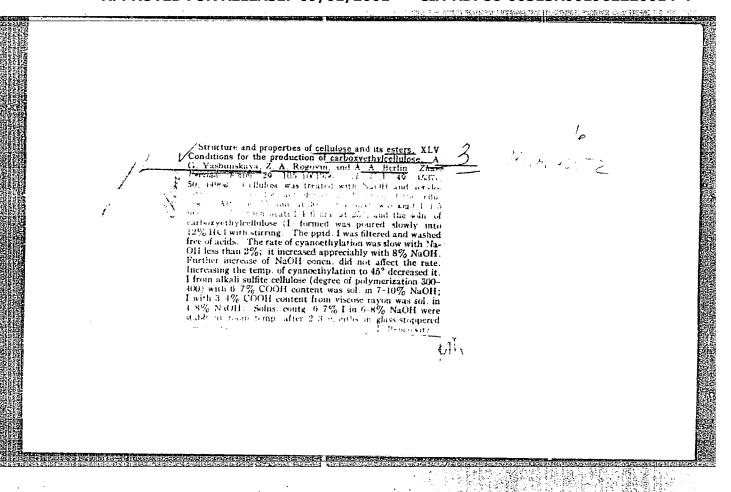
Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6329

Abstract: 2.0-2.9%. Samples of cellulose subjected to acid treatment after cooking or chlorination, or bleaching, are more reactive than control samples. Comparative data on cellulose degradation in acid and in alkaline media, reveal that in both instances a decrease in DP, from 803 to 492-579, occurs, but a substantial improvement in reactivity (from 110/11 to 50/11) is observed only after the acid treatment.

Card 2/2







YASAUNSKAYA, A.G.

USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6277

Author: Yashunskaya, A. G., Rogovin, Z. A., Berlin, A. A.

Institution: None

Title: Investigation of the Conditions of Preparation of Carboxyethyl Cellulose

Original

Publication: Zh. prikl. khimii, 1956, 29, No 1, 105-110

Abstract: Into a mixture of a solution of alkali and acrylonitrile (I) was added cellulose (C). After stirring for 40-45 minutes at 30-350 the reaction mixture was cooled to -50 and held at this temperature for 1-1.5 hour after which it was heated to 250. After stirring for 4-6 hours, reckoning from the start of the treatment, a solution of carboxyethyl cellulose (CEC) was obtained. With a concentration of the NaOH solution of less than 2% the reaction of cyanoethylation proceeds very slowly. An increase in the concentration of NaOH

Card 1/2

CENTRAL PROPERTY.

80

USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Feferat Zhur - Khimiya, No 2, 1957, 6277

Abstract: shove 8% does not increase substantially the degree of esterification (DE). Factors which accelerate the hydrolysis /increase in temperature (450), increase of the amount of alkali in the reaction rixture, lower the DE of C. On increase of the amount of NaOH solu-1 ion from 10 to 50 ml, per 1 g C, the content of COOH groups in CEC decreases from 7.0 to 2.87%. Use of alkali C, produced by mercerization followed by pressing, comminution and pre-ripening, has made it possible to prepare CEC by direct action of I on alkali C, and to increase thereby considerably the utilization of I, in the primary reaction of esterification, from 10-22% to 46-63%. Maximum DE -- total Y = 95.1 (0.19% COOH groups, 6.22% nitrogen), was attained in 3 hours with expenditure of 1.5 mole I per unit C linkage. CEC prepared from sulfite wood C (degree of polymerization 300-400), dissolves in 7-10% solution of NaOH, with a 6-7% content of COOH groups (Y = 26-30). CEC prepared from reprecipitated C (viscose rayon), dissolves in 4-8% solution of NaCH with a 3-4% content of COOH groups ($\gamma = 12-15\%$).

Card 2/2

CIA-RDP86-00513R001962220014-4" **APPROVED FOR RELEASE: 09/01/2001**

15.5530,15.9530

SOV/63-4-6-6/37

AUTHOR:

Yashunskaya, A. O., (Candidate of Technical Sciences)

TITLE:

Cellulose for the Manufacture of Viscose Cord

PERIODICAL:

Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 6,

pp 726-730 (USSR)

ABSTRACT:

Standards and characteristics required of cellulose used in the manufacture of high-strength cord are discussed in the article. Modern viscose cord fibers have a breaking length of 50 km at 10% elongation; the tensile strength in wet state decreases only by 20 to 25% (Khim. volokna, 1959, Nr 1, p 15). Molecular heterogeneity, particularly the content in fractions with DP < 150-200, is detrimental to the physical and mechanical properties (ibid., 1959, Nr 2). Molecular homogeneity influences positively the properties of the fibers, and also affects their structure; the viscosity of cellulose solutions with identical average DP decreases with the increasing uniformity of the molecular weights (Bum. prom., 1958, Nr 9, p 4).

Card 1/4

Cellulose for the Manufacture of Viscose Cord

77272 SOV/63-4-6-6/37

It was shown that low-molecular cellulose xanthate fractions have a higher degree of esterification; it follows, therefore, that the molecular heterogeneity produces also a chemical heterogeneity (A. A. Konkin, Yu. A. Rymashevskaya, N. V. Shulyatikova, in print). The heterogeneity of the molecular weight, and also the presence of cellulose fractions with DP exceeding considerably the mean value, lowered the filtrability of viscose solutions (Bum. prom., 1959, Nr 10, p 5). Studies of the aging of alkali celluloses (A. G. Yashunskaya, in print) showed a varying accumulation of cellulose. The tensile strength and the elongation of the fibers were inversely proportional to the content of β -cellulose. According to recent studies, the quality of cellulose cord is determined by the carboxyl groups content which can be considered as the characteristic pf purity, i.e., of the content of glucose poly-anhydride (Bum. prom., 1958, Nr 9, p 4). This carboxyl as well as carbonyl groups are formed in the oxidation and hydrolytic reactions, particularly during bleaching

Card 2/4

Celiulose for the Manufacture of Victore Cord

-S0V/63-4-6-6/37

(Izv. AN SSSR, 1952, Nr 7, p 751; 1613., 1953, Nr 2, p 374) and aging. The effect of various metal cations on the oxidation and visgosity of cellulose solutions is discussed. It was established that the decrease in the ash content increased the transparency of viscose solutions (Bum. prom., 1958, Nr 8, p 2). The ash content in cord cellulose does not usually exceed 0.05 to 0.06%. Cotton cellulose possesses all the characteristics required of a raw material for the manufacture of highstrength cord, namely 98 to 99% a-cellulose content, high purity, a very small degree of polydispersity. (Khim. volokna, 1959. Nr 1, p 22). and an insignificant accumulation of low-molecular fractions during the aging. Cord fibers made of cotton cellulose have a high tensile strength, but cotton cellulose sometimes presents difficulties in the filtration and formation of viscose solutions (Khim. volokna, 1959, Nr 1, p 27). The application of mixed cotton and ligneous cellulose in non-Soviet cord plants is discussed, and the characteristics of some foreign celluloses are given. There

Card 3/4

Cellulose for the Manufacture of Viscose Cord

77272 307/63-4-6-6/37

are 3 tables; 7 figures; and 43 references, 13 U.S., 2 Canadian, 3 Finnish, 3 Swedish, 2 Japanese, 1 Czechoslovakian, 8 German, and 11 Soviet. Recent U.S. and Canadian references are: F. Walker, Paper Trade J., 6, Nr 3, 12, 14, 16 (1955); D. D. Bachlott, Y. K. Miller, D. W. White, Tappi, 38. 503 (1955); W. Drisch, L. Soep, Textile Res. J., 23, 8, 513 (1953); Al. Stamm, Paper Ind., 34, Nr 10, 1233 (1953); F. Walker, Pulp a. Paper Mag. Canad., 57, Nr 8, 127 (1956).

Card 4/4

YASHUNSKAYA, A.G.

Evaluating the quality of viscose cellulose. Khim.volok. no.1:23-26 '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Cellulose) (Rayon)

YASHUNSKAYA, A.G.; KONOVALOVA, Ye.M.

Effect of carbonyl groups in cellulose on preripening process.

Khim.volok. no.6:24-28 '61. (MRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Cellulose) (Carbonyl group)

Depolymerization of sulfite and sulfate cord cellulose in preripening process. Khim.volok no.4:27-30 '62. (MIRA 15:8) 1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna. (Cellulose) (Depolymerization)

YASHUNSKAYA, A.G.; KOHOVALOVA, Ye. ...

Polydispersion and rate of depolymerization of cord cellulose in the process of preriponing. Khim.volok.no.5:32-36 '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-isaledovatel'skiy institut iskusstvennogo velokna.

YASHUNSKAYA, A.G.; KONOVALOVA, Ye.M.; BELASHEVA, T.P.

Simplified method for determining the degree of polymerization of alkali cellulose. Khim. volok. no.2:31-33 '65.

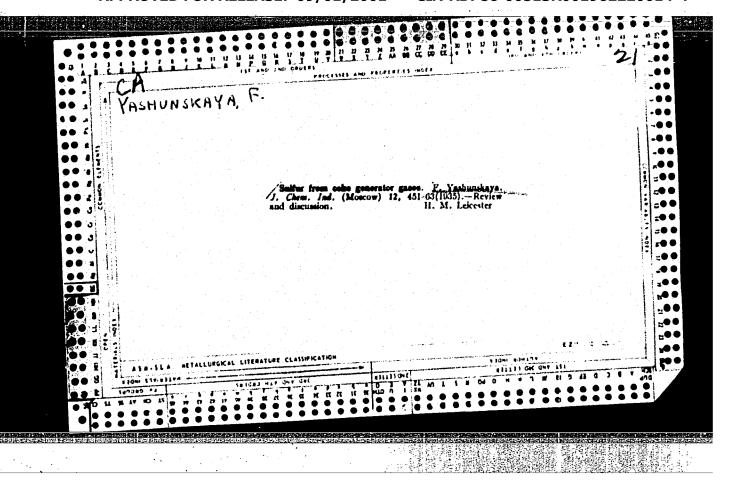
1. Vsesoyuznyy nauchno-issledovatel!skiy institut iskusstvennogo volokna.

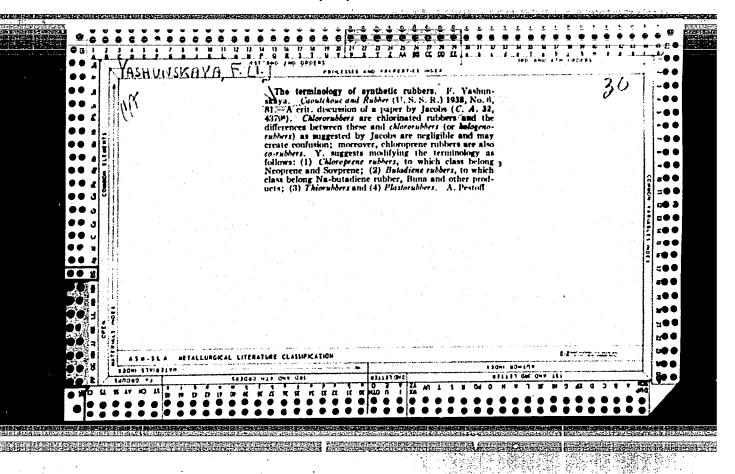
YASHUNSKAYA, A.G.; KONOVALOVA, Ye.M.

Effect of individual ions on the pre-aging process of alkali cellulose. Khim. volok. no.1:68-70 '62. (MIRA 18:4)

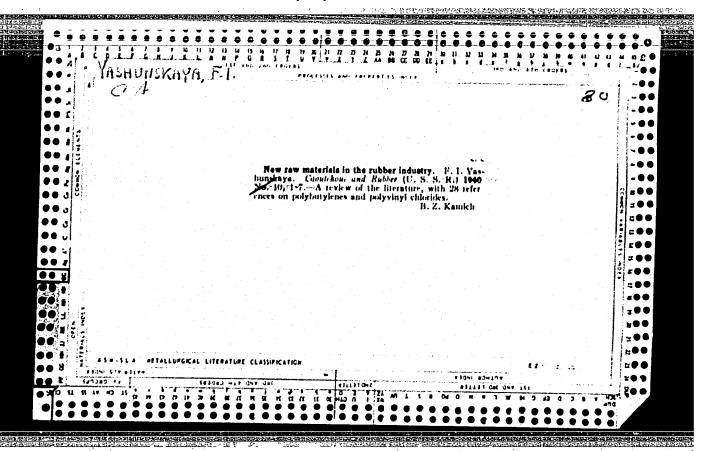
1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

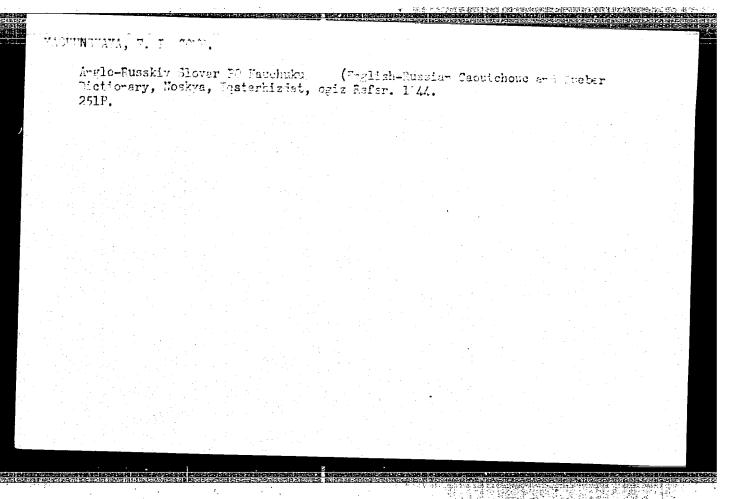
Collected atricles on "Conducting polymeric materials, their properties and uses." Reviewed by F.I. Liehunskais. (Polymers—Electric properties)





YASHUNSKAYA, F	
Anglo-Russkiy Slovar P Gostekhizdat, 1944. 251 p.	o Kauchuku i Rezine. Moskva,
Added T.P. in English	





FD-891

YASHUNSKAYA, F. I.

USSR/Chemistry - Rubber

Pub.50 - 24/24

Author : Yashunskaya, F. I.

: Puncture-proof tires without tubes (Foreign Developments) Title

Periodical: Khim. prom., No 6, 382-384 (62-64), Sep 1954

: On the basis of foreign work, reviews the subject of tubeless puncture-Abstract

proof tires. Twenty-eight references, all foreign.

Institution:

Card 1/1

Submitted

Y'SHUNGKIYA, F. I.

USSR/ Chemistry Rubber production

Card 1/1 Pub. 86 - 3/36

Authors : Yashunskaya, F. I.

Title : Rubber in our days

Periodical : Priroda 43/8, 22 - 29, Aug 1954

Abstract: The history of rubber is recounted as well as the use of synthetic rubber, in which the author finds the United States to be ten years behind the Soviet Union. A comparison is made between the composition of natural rubber and that of synthetic rubber. Details are given of the chemical factors involved in the making of artificial

rubber and the compositions of various kinds stated as well as the use to which they are put. An analysis is made of the outlook for

synthetic rubber in general. Illustration.

Institution :

Submitted : ...

Translation D 209305 - 18 Am 55

USSR/Chemistry-Rubber-Y-H3H-L19

Card 1/1

Pub. 50 - 11/14

Author

Yashunskaya, F. I., Cand Tech Sci

Title

Tubeless tires (Foreign developments)

Periodical

Khim. prom. No 4, 239-242, Jun 1955

Abstract

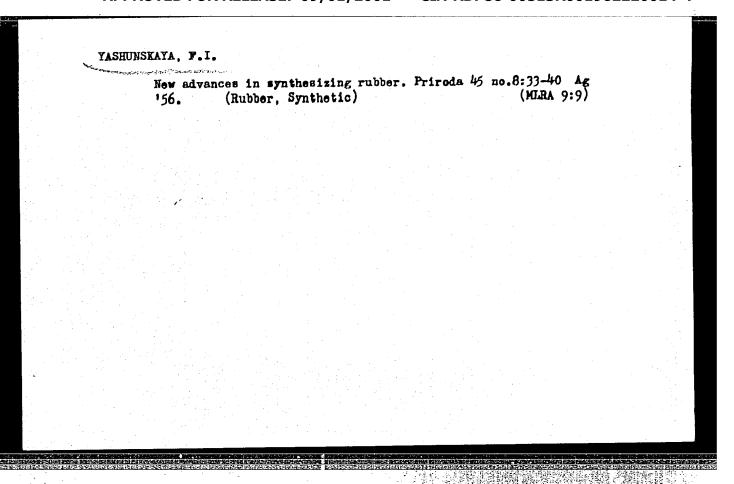
: Outlines on the basis of foreign publications technological progress in the production of tubeless tires. This article supplements information given in a review published in Khim. prom. No 6, 62, 1954. Forty four references; 2 USSR, both

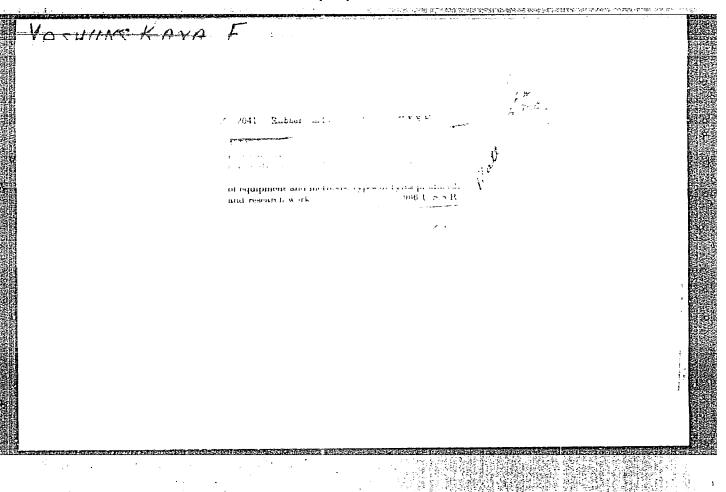
since 1940.

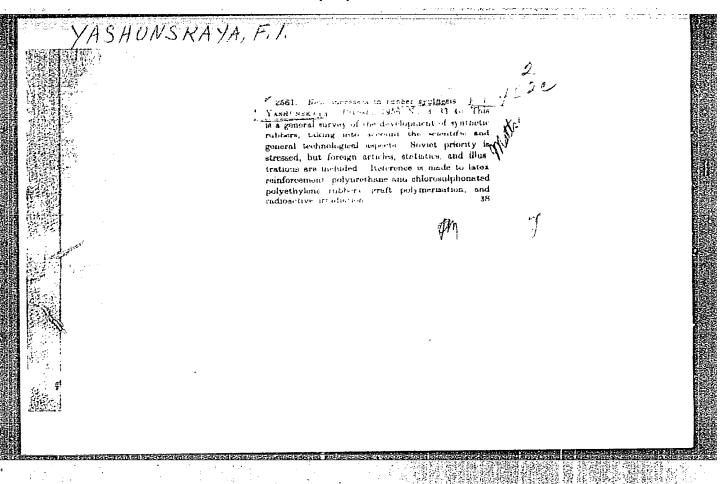
YASHUNSKAYA, F.I.

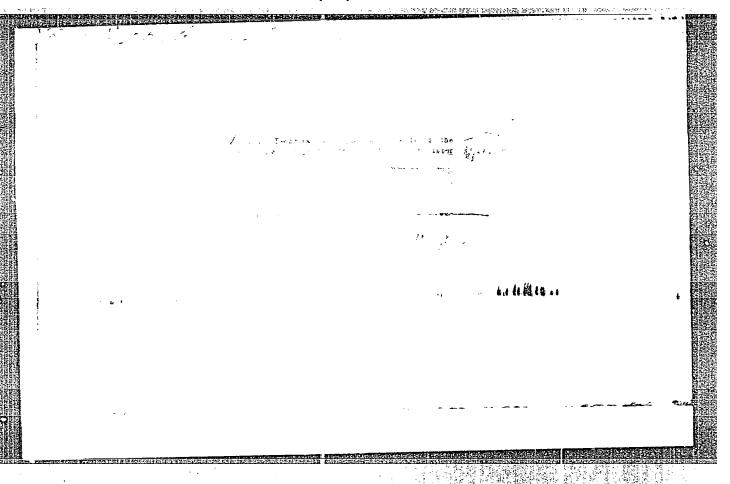
Meeting of party and administrative personnel in the Scientific Research Institute of the tire industry. Khim.prom.no.5:315 Jl-Ag '55. (MIRA 9:1)

(Tires, Rubber)









USSR/General Problems, Methodology. History. Scientific Institutions and Conferences. Teaching. Problems of Bibliography and Scienctific Documentation

: Ref Zhur-Khimiya, No 4, 1958, 10235 Abs Jour

: V. B. Yevstratov, K. D. Bebris, V. L. Biderman,

G. N. Vriyko, L. V. Desidley, A. N. Zherevtsov,

F. I. Yashunskaya.

: Notgiven Inst

Development of the Tire Industry in the USSR Title

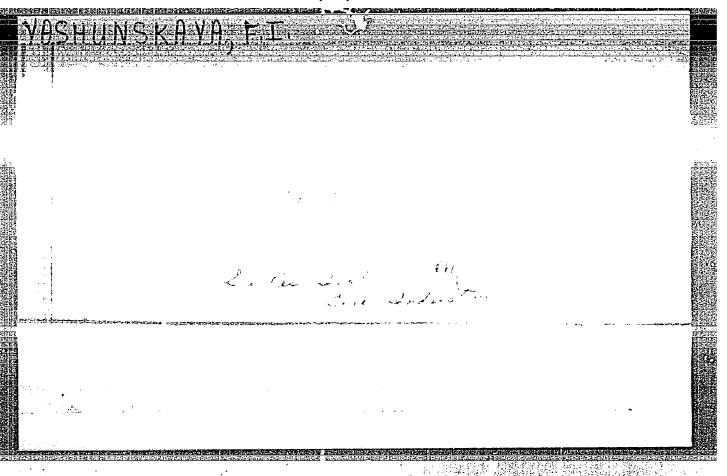
in 40 Years.

Orig Pub : Kauchuk i rezina, 1957, No 10, 13-26

Bibliography 25-titles

Abstract : No Abstract

Card 1/1



YASHUNSKAYA, F.I.

Conference of the D.I. Mendeleev All-Union Chemical Society.

Kauch.i rez. 16 no.5:35-36 Ny 157.

(Rubber)

(Rubber)

 YEVSTRATOV, V.F.; HEBRIS, K.D.; BIDERMAN, V.L.; BUYKO, G.N.; DESIDLEY, L.V. ZHEREBTSOV, A.N.; YASHUNSKAYA, F.I.

Development of the tire industry in the U.S.S.R. during the last forty years. Kauch. i rez. 16 no.10:13-26 0 '57. (MIRA 11:1) (Tires, Rubber-History)

YASHUNSKAYA, F.I., kandidat tekhnicheskikh nauk; GOL'DMAN, E.E.
"White soot." Priroda 46 no.6:78-80 Je '57. (MIRA 10:7)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Moskva). (Silica)

15(9)

PHASE I BOOK EXPLOITATION

SOV/3103

Yashunskaya, Felitsiya Iosifovna

Sinteticheskiy kauchuk i yego primeneniye v narodnom khozyaystve (Synthetic Rubber and Its Use in the National Economy) Moscow, Goskhimizdat, 1958. 78 p. 25,000 copies printed.

Eds.: A.I. Zitser, and Ye.V. Shemastina; Tech. Ed.: M.S. Lur'ye.

PURPOSE: This booklet is intended for the general reader interested in the production of synthetic rubber and the manufacture of vulcanized rubber products.

COVERAGE: The production of crude synthetic rubber for vulcanized rubber products is briefly reviewed. The author outlines the history of the development of synthetic rubber production in Russia, Western Europe and the USA. Basic principles of rubber synthesis and the differences between natural and synthetic rubber are explained. Different types of synthetic rubbers, such as the butadiene rubber, chloroprene rubber, isoprene rubber, butyl rubber, fluoro rubber, urethan rubber, etc. are

Card 1/5

CIA-RDP86-00513R001962220014-4"

APPROVED FOR RELEASE: 09/01/2001

Synthetic Rubber (Cont.)

SOV/3103

reviewed, the polymerization process outlined, and the equipment used in this process described. The author also explains rubber vulcanization, analyzes the composition and properties of vulcanized rubber and describes the manufacturing process of vulcanized rubber products. Special attention is devoted to the manufacture of automobile tires, properties of rubber used in tires, and to methods of their fabrication. Conveyor belts, drive belts, and rubber hoses are reviewed and their manufacture described. The booklet contains a few pictures of equipment used in synthetic rubber production, and in manufacturing various rubber products. S.V. Lebedev, I.I. Ostromyslanskiy and N. D. Zelenskiy are mentioned as scientists who have greatly contributed to the development of rubber synthesis, and to the growth of the synthetic rubber industry of the Soviet Union. There are 12 Soviet references.

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Synthetic Rubber

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YEVSTRATOVA, V.F., kand. khim. nauk, red.: YASHUNSKAYA, F.I., kand. khim. nauk, red.; SATAROVA, M.V., red.; KHOMYAKOV, A.D., tekhn. red.

[New rubbers; properties and uses. Collection of translated articles from foreign periodicals] Novye kauchuki; svoistva i primenenie. Sbornik perevodov statei iz inostrannoi periodicheskoi literatury. Moskva, Izd-vo inostr. lit-ry, 1958. 500 p. (MIRA 11:7) (Rubber)

YASHUNSKAYA, F.I.

25-58-3-5/41

AUTHOR:

Yashunskaya, F.I., Candidate of Technical Sciences

TITLE:

Rubber (Kauchuk)

PERIODICAL:

Nauka i Zhizn', 1958, Mr 3, pp 17-22 (USSR)

ABSTRACT:

The author gives a short review of the history of developing and a description of its compounds, synthetic rubber thereby emphasizing the unique property of natural rubber its high elasticity. During the past few years, the USSR has (SKI), which succeeded in synthesizing isoprene rubber on the basis of its molecular structure and its resilience shows almost equal properties to that of natural rubber' The discovery of SKI brought about considerable changes in the synthesizing methods of rubber. . The new way of synthesis was carried out using alkali lithium metal as a catalyzer. Today, new more efficient types of rubber are being produced by "grafted" polymerization methods; two different hybrids might result from this process: bloc polymers or grafted polymers. Another means to increase the durability is to apply irradiation with particles properties of rubber of high energy. Discoveries made by various scientists recently

Card 1/2

Rubber

25-58-3-5/41

led to a remarkable success: they obtained urethan rubber which is twice as wear-resistant as natural rubber. Urethan caoutchouc is obtained by synthesis on the basis of chemical products of the coal-tar and oil-processing. Recently, scientists discovered that an addition of 0.5-1.5% of carboxyl-containing substances, e.g. acrylic or methacrylic acids, to the raw material produces new properties in rubber, , which help to improve its durability.

There are 11 sketches and one illustration.

AVAILABLE:

Library of Congress

Card 2/2

1. Synthetic rubber-Development

SOV/138-58-12-16/17

V.F. Yestratov and F.I. Yashunskaya EDITORS:

New Rubbers - Properties and Uses (Novyye kauchuki. TITLE:

Svoystva i primeneniye)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 12, p 45 (USSR)

ABSTRACT: A review of a collection of articles translated from

foreign (non-Soviet) periodicals. Published by Izdatel'stvo inostrannoy literatury (Publishing House for Foreign Literature), Moscow, in 1958. There are 500 pages.

Card 1/1

15(9) SOV/63-4-1-17/31

AUTHOR: Yashunskaya, F.I., Candidate of Technical Sciences

TITLE: Some Technical-Economical Data for the Characteristic of the Rubber Industry of Capitalist Countries (Nekotoryye tekhniko-

ekonomicheskiye dannyye k kharakteristike rezinovoy promy-

shlennosti kapitalisticheskikh stran)

PERIODICAL: Khimicheskaya nauka i promyshlennost, 1959, Vol 4, Nr 1,

pp 115-120 (USSR)

ABSTRACT: The article deals with the rubber industry of the USA, Great

Britain, France, the Federal Republic of Germany, Japan, Canada, and Italy. It contains materials on the following subjects: total and per capita consumption of rubber, assortment of

rubber products, tires, technical rubber products, raw material base, production and consumption of synthetic rubbers, re-

Card 1/2 claimed rubber, technical fabrics and their properties, pro-

sov/63-4-1-17/31

Some Technical-Economical Data for the Characteristic of the Rubber Industry of Capitalist Countries

duction of carbon blacks and other fillers, etc.

There are 11 tables and 20 references, 3 of which are Soviet,
13 English and 4 French.

Card 2/2

YASHUNSKAYA, F

Economic considerations in the utilization of reclaim. Eauch. i rez. 18 no.1:57 Ja '59. (MIRA 12:1)

1. Nauchno-issledovatel'skiy institut shinney promyshlennosti.
(Rubber, Reclaimed)

SOV/138-59-2-2/24

AUTHORS: Zakharchenko, P. I. and Yashunskaya, F. I.

TITLE: Contribution of Rubber Goods to the Progress of the National Economy in the 1959-1965 Seven Year Period

(Rezinovyye izdeliya na sluzhbe tekhnicheskogo

progressa narodnogo khozyaystva v semiletii 1959-1965 gg)

PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 4-9 (USSR)

ABSTRACT: According to the Seven Year Plan the capacity of the

rubber tyre industry is to increase very considerably and this also applies to synthetic materials. One of the main consumers of rubber goods is the automobile industry, which absorbs 65 to 70% of the total rubber output. A new application of rubber is rubber-pneumatic suspension to substitute steel spring suspension, An important field of utilisation of

rubber is the aircraft industry and, for instance, the TU-104 contains 126 000 rubber components of 200

different types. Communications have been published on the production of small aircraft with collapsible and

inflatable wings and fuselages made of rubberized fabric. An important field of application in railway transporta-

Card 1/2 tion is the substitution of cast iron brake-blocks by

SOV/138-59-2-2/24

Contribution of Rubber Goods to the Progress of the National Economy in the 1959-1965 Seven Year Period

rubber-asbestos brake-blocks and by 1965 the introduction of such blocks on Soviet railroads should result in an economy of 400,000; of cast iron. A further important application is in road building; rubber-bitumen road surfaces are considerably superior to asphalt road surfaces. The use of rubber in the tractor industry is to be increased considerably. The requirements to be met by rubber in the heavy industry are continuously more exacting. In 1965 the Soviet Union is to produce 168 million pairs of rubber shoes and boots, particularly rubber boots and goloshes which can be produced using extensively lear rubber.

Card 2/2

SOV/138-59-4-23/26

AUTHOR: Yashunskaya, F.

On B. Mikhant'yev's booklet "The Present and Future Use of Artificial and Synthetic Materials" (O broshyure B. Mikhant'yeva "Segodnya i zavtra iskusstvennykh i sinteticheskikh materialov") TITIE:

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, p 61 (USSR)

This book is a popular account of new materials. ABSTRACT:

reviewer points to a number of factual errors in the sections

dealing with synthetic rubbers.

Card 1/1

15.9210 also 2109,2209

8/138/59/000/011/001/011 A051/A029

AUTHORS:

Yashunskaya, F. I., Markovich, G. A.

TITLE:

On the Problems of High-Elastic Synthetic Rubbers as Compared

to Butadiene-Styrene Rubbers &

Kauchuk i Rezina, 1959, No. 11, pp. 1-7. PERIODICAL:

In the USSR particular emphasis is laid on an increase in the TEXT: production of butadiene-styrene and butadiene-methyl-styrene copolymer rubbers because of their wear-resistance, high elastictiy, durability, tensile strength, etc. It is the intention of the Soviet Synthetic Rubber Industry to produce butadiene-styrene rubber with higher physico-mechanical properties, of lesser cost and easier to process. It was found, for example, that the introduction of small additions of carboxyl-containing monomers, such as methacrylic acid, into the polymerizing mixture, imparts new properties to the ternary copolymers: elevated thermal aging resistance, resistance to the formation of cracks, elevated wear-resistance and an elevated stability of adhesion between the rubber and the textiles. The carboxylcontaining rubbers yield strong vulcanizates not requiring fillers, which

Card 1/3

S/138/59/000/011/001/01 A051/A029

On the Problems of High-Elastic Synthetic Rubbers as Compared to Butaliene-Styrene Rubbers

is an important factor in the manufacture of white and colored rubbers (Ref. 1, 2). The disadvantage of the carboxyl-containing rubbers is the tendency of the rubber mixtures to scorching during the processing. Another monomer as third component in the ternary copolymers recommended is methylvinylpyridine, which can increase the wear-resistance and the agingresistance in the rubber. However, these copolymers have not as yet been fully investigated. It is stated that many articles are still being maie of natural rubber. Therefore, stress is laid on producing a synthetic rubber with equal elastic properties to natural rubber and having a number of advantages over it. The stereospecific polymerization is used for this purpose, with lithium and Ziegler-type catalysts. | Special need for improved types of butadiene-styrene rubbers is felt in the production of tires for trucks, buses and aircraft, which represents 80% of the total number of tires manufactured in the USSR. The (KU(SKI) type high-elastic sterecregular rubber is the only one of its kind tested and suitable for manufacturing heavy-vehicle tires in the USSR. The import of natural rubber can be reduced by expanding the production of the new high-elastic rubbers,

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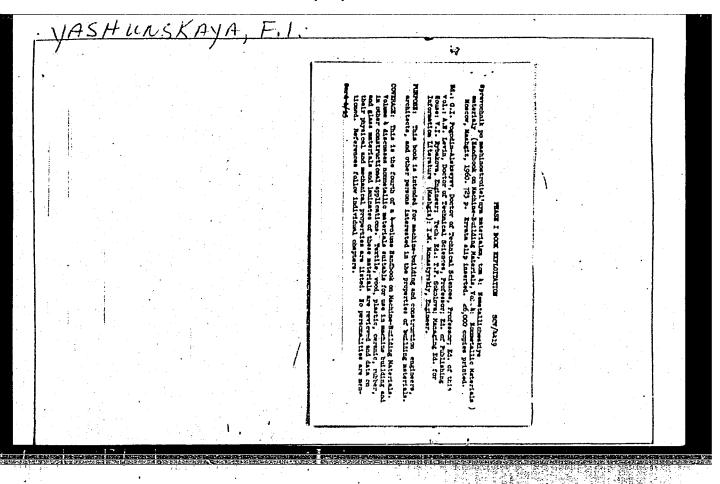
On the Problems of High-Elastic Synthetic Rubbers as Compared to Butadiene-

by erecting new SKI plants, and by developing the production of isoprene rubber, both on the basis of lithium and complex cocatalysts of the Ziegler and other types. Research into developing and producing new types of high-elastic rubbers of the cis-1,4-butadiene type is recommended, in addition to ethylene copolymers with propylene, etc. which would surpass natural rubber in their technical properties. A table is given (Table 1) of the comparative properties of the SKI, natural and CKC-30A(SKS-30A) rubbers. It is seen that SKI rubber is the most promising of the synthetic rubbers. There are 3 tables and 14 references: 7 Soviet, 7 English.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

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Sciences; P.I. Lokhina, Engineer; F.I. Sokolovskaya	. Candidate		
of Technical Sciences; V.A. Lepetov, Candidate of Te	chnical Scien	res.	
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Solid-rubber tires		
Valve stems		
iber-reinforced rubber belts and ban	đs .	
Belts [i. e. drive belts, fan belt		
Conveyer belts		
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ubber parts in machine building	en e	
Rubber packings		
Rubber-metal bushings		
Rubber shock-absorbing parts		
uxiliary rubber materials		

8/063/60/005/001/008/009

AUTHOR: Yashunskaya, F. I., Candidate of Engineering

TITLE: On the Work of the Section on Rubber in the VKhO im. D. I. Mendeleyeva

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva im. D. I. Mendeleyeva,

1960, Vol. 5, No. 1, p. 102

The section on rubber in the All-Union Chemical Society was organized in 1957. Its activities comprise the technical development in the tire and rubber industry, exchange of scientific and industrial experience, improvement of the scientific and technical qualification of the members of the Society. In 1957, the section convened in Leningrad a scientific-technical conference on the future trends in the technical progress in the tire industry and in the industry of rubber-engineering products. In 1958, the section convened an All-Union conference on chemicals for the rubber industry. In 1959, an All-Union Conference on the mechanization and automation of some basic processes of the rubber production was organized. In 1960, an All-Union Conference was convened in Leningrad on apparatus and methods of physico-mechanical tests of rubber and an exhibition of the most modern apparatus was organized. In the first half of 1960 a discussion on the organization of the production of highly-resistant artificial and synthetic

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On the Work of the Section on Rubber in the VKhO im. D. I. Mendeleyeva

fibers took place. In 1959, conferences were convened in the Moscow area which dealt with problems pointed out in the following papers: I, S. Kantor, "On the Technical Design of the Dnepropetrovsk Tire Plant Built on the Basis of a New Technology Using Imported Equipment and Documentation of Technological Processes"; V. I. Novopol'skiy, "On the Results of the Paris Symposium on Tires"; S. N. Mardon'yev, "On the Technology of Production of Rubber-Engineering Items in England"; S. V. Burov and Ye, S. Dmitriyev on their visit to Italian tire plants. Several shortcomings in the work of the section are pointed out: organizations in the periphery do not sufficiently participate in the work, more excursions should be organized and the activity of the primary organizations at the plants and in the institutes is insufficiently coordinated.

Card 2/2

3/063/60/005/003/001/903 A003/A001

AUTHOR:

Yashunskaya, F.I. Candidate of Technical Sciences

TITLE:

The Mechanization and Automation of Some Basic Technological Processes in the Rubber Industry (Based on Materials of the Conference of

the Section on Rubber in the VKhO imeni D.I. Mendeleyev)

PERIODICAL:

Zhurnal vsesoyuznogo khimicheskogo obshchestva im. D.I. Mendeleyeva,

1960, Vol. 5, No. 3, pp. 337 - 339

The Vsesoyuznoye soveshchaniye sektsii reziny VKhO im.D.I.Mendeleyeva (All-Union Conference of the Section on Rubber in the VKnO imeni D.I. Mendelsyeva) III tock place in Moscow in December 1959. The achievements in the technology of the rubber industry and the industry of leather substitutes, e.g., new transfer lines, Soviet high-speed rubber mixers, Wthe first automatic installation for the preparation of rubber mixtures at the Kiyevskiy regeneratno-rezinovyy zavod (Kiyev Reclaimed Rubber and Rubber Plant), the automatic weighing and charging of ingredients at the Yaroslavskiy shinnyy zavod (Yaroslavl' Tire Plant) were discussed. New types of machines are being developed at the "Metallist" Plant, the Tambovskiy zavod khimicheskogo mashinostroyeniya (Tambov Plant of Chemical Machine Building),

Card 1/4

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The Mechanization and Automation of Some Basic Technological Processes in the Rubber Industry (Based on Materials of the Conference of the Section on Rubber in the VKhO imeni D.I. Mendeleyev)

etc. The technological level of the best plants abroad, however, has not yet been attained. The Conference was attended by more than 150 delegates from 37 plants, including 6 large machine-building plants, 13 designing and branch institutes, several national economic councils, state plan commissions and state committees. It was shown that the coordination of scientific research and experimental designing works is insufficient. The supply of the machine-building plants with membrane mechanisms, new types of engines, electric control apparatus is not satisfactory. The production of model equipment types is too slow. Several propositions were made: to speed up the output of highly-efficient powerful rubber mixers, calenders, extruders, vulcanization molds, casting presses, etc; to organize the output of pressure relays, membrane valves, membrane servo mechanisms, solenoid valves, new types of electromotors, control devices, special lubricators, etc; to develop laboratory equipment necessary for the investigation of new synthetic polymars, vacuum mixers for a wide range of viscosity, rollers for an operation temperature of 700°C, to raise the training level of the personnel for control and measuring apparatus, automated devices, etc; to convene a conference every year,

Card 2/4

8/063/60/005/003/001/003 A003/A001

The Mechanization and Automation of Some Basic Technological Processes in the Rubber Industry (Based on Materials of the Conference of the Section on Rubber in the VKhO imeni D.I. Mendeleyev)

the next one taking place in Kiyev. The following papers were presented: A.P. Bogayevskiy (NIIRP), Introductory speech on the problems of the Conference; I.P. Tsyganok (Tambov Plant of Chemical Machine-Building), "Development of New Machine Designs and Other Types of Equipment for the Rubber Industry"; V.M. Kamenskiy, Development of New Machine Designs and Units for the Rubber Industry and Mcdernization of the Mass-Produced Equipment Manufactured by the "Bol'shevik" Plant; E.I. Goloskov ("Metallist" Plant), "Results and Prospects of the Work at the "Metallist" Flant Concerning the Development and Introduction of New Machine Designs for the Rubber and Tire Industry"; V.V. Arkhipov (NIKTI, Omsk), "Automatic Transfer Lines for the Production of Rubber Mixtures"; M.I. Penovskiy (NIKTI, Omsk), "Mechanization of the Recharging of Molds in Autoclave Vulcanization"; S.N. Marden yev (NIIRP), "Review of the Vulcanization Equipment for the Production of Mold PTW (RTI); G.G. Smirnov, (NIKTI), "Automatic Transfer Lines for the Vulcanization of Motorcar Tires"; A.P. Aksenov (Yaroslavl' Plant of Chemical Machine-Building), "Vulcanization Press-Dies for Tires and the Improvement of the Technology of Their Production"; M.T. Klyuchnikova (Kiyev Reclaimed Rubber and Rubber Plant), "The Card 3/4

S/063/60/005/003/001/003 A003/A001

The Mechanization and Automation of Some Basic Technological Processes in the Rubber Industry (Based on Materials of the Conference of the Section on Rubber in the VKhO imeni D.I. Mendeleyev)

Operating Semi-Automatic Transfer Line on the Mixing and Rolling Section of the Colored Microporous Sole Production"; S.M. Lirner (Kiyevskiy zavod RTI - Kiyev PTW (RTI), "The Semi-Automatic Machine KBHA (KVND), a Vulcanizer of Continuous Operation for the Mass-Production of Rubber-Engineering Articles"; V.D.Levenshteyn (Leningrad Branch of Rezinoproyekt), "The Design of a Light-Duty Three-Dimensional Conveyer"; D.Ye.Kupriyanov (NITRP), "Apparatus for the Continuous Vulcanization Process of Rubber Tubes"; P.D. Zolkin (NITRP), "New Apparatus for the Vulcanization of Rubber Shoes"; A.P. Pukhov (NITShP) "Experience of Automatic Weighing of the Ingredients of Rubber Mixtures and the Control of Rubber Mixers at the Yaroslavi' Tire Plant"; V.K. Smirnov ("Kauchuk" Plant) "Mechanization and Automation of the Processing of Mold Parts"; KH.E. Malkina (NITShP), "The Application of Electric Heating for the Decrystallization of Natural Rubber and Preliminary Heating in the Vulcanization of Treads".

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S/138/60/000/008/014/015/XX A051/A029

AUTHOR:

Yashunskaya, F.I.

TITLE:

At the VKhO imeni D.I. Mendeleyev (On the Work Carried Out by the

Rubber Section)

PERIODICAL: Kauchuk i Rezina, 1960, No. 8, p. 55

TEXT: On July 8, 1960, the Administration of the VKhO imeni D.I. Mendeleyev heard a report made by the Polymer Sections including the Rubber Section. The main work of the section involved the introduction of new techniques, mechanization, automation and the continuous operation of production processes. This work was reviewed at an All-Union Scientific-Technical Conference on mechanization and automation of some of the major technological procedures in the Tire and Rubber Industries, conducted by the Rubber Section in December 1959, and at a conference on new methods and instruments for physico-mechanical testing of rubber (March 1960). Several lectures on new techniques are read in Moscow for members of the Rubber Section: I.S. Kantor on the Technical Project of the Dnepropetrovskiy shinnyy zavod (Dnepropetrovsk Tire Plant); V.I. Novopol'skiy on the Paris Symposium on Tires; V.F. Yevstratov on the Washington International Conference on

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S/138/60/000/008/014/015/XX A051/A029

At the VKhO imeni D.I. Mendeleyev (On the Work Carried Out by the Rubber Section)

Rubber, etc. A Reader's Conference was convened in May 1960 by the VKhO imeni Mendeleyev, Yaroslavl' Division, on the "Kauchuk i Rezina" journal. Regular seminars are conducted in Moscow on the theory and mechanism of rubber filling organized by the first organization of VKhO imeni D.I. Mendeleyev, at the NII of the Tire Industry. A conference on cooperation with the Yaroslavl Division on problems of quality, processing and the rational application of cord in the tire industry should be convened. The II All-Union Conference on Mechanization and Automation in the Rubber and Tire Industries is being organized in Kiyev by the Kiyev Division of the VKhO imeni Mendeleyev and in the near future a conference will be convened in Moscow of employees of the department of scientific research (Scientific and Technical Information) in industrial installations and institutes of the rubber and tire industries, concerning summaries, forms and methods of their work, shortcomings and means for their elimination. A few excursions abroad are to be undertaken. Certain aspects of the work in the polymer sections were pointed out in some of the criticisms given on the submitted papers, e.g., insufficient coordination between the section and the first organizations of the VKhO imeni Mendeleyev, on the one side, and with the Goskhimkomitet (State Committee for Chemistry), on the other; the absence of a methodical guidance of the functions of the second-Card 2/3

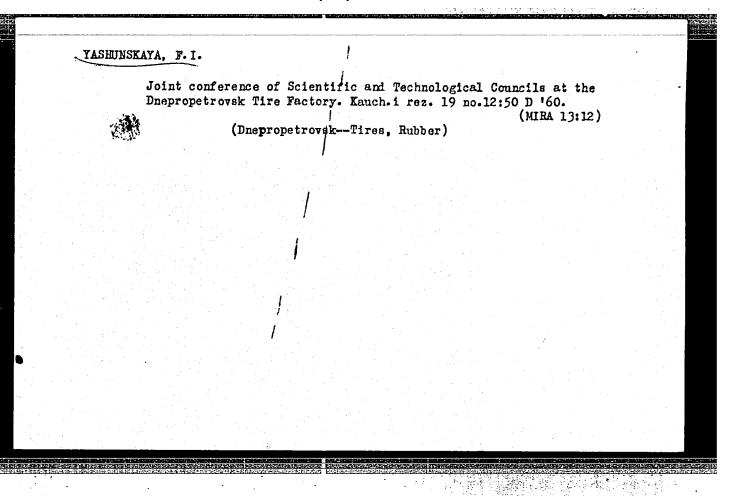
S/138/60/000/008/014/015/xx A051/A029

At the VKhO imeni D.I. Mendeleyev (On the Work Carried Out by the Rubber Section)

ary organizations on the part of the section; improper timing of the check of fulfilling decisions adopted at the various conferences and meetings. It is suggested that the work of the Rubber Section be intensified.

Card 3/3

YASHUNSKAYA, F. I.
Ten-language dictionary of crude and vulcanized rubber. Reviewed by F.I. IAshunskaia. Kauch.i rez. 19 no.4:63-64 Ap '60. (MIRA 13:12)
(Rubber-Dictionaries)



TASHUNGKAYE, F.I. Synthetic rubber technology by W.S. Penn. Reviewed by F.I. Ashungkaia. Kauch. 1 rez. 20 no.1:64 Ja '61. (Rubber, Synthetic) (Rubber, Synthetic)

KRICHEVSKIY, I.Ye.; YASHUNSKAYA, F.I.

Comparative technical and economic estimation of prospective fibers for tire cord. Kauch.i rez. 20 no.5:39-44 My '61. (MIRA 14:5)

1. Moskovskiy institut tohkoy khimicheskiy tekhnologii im. M.V. Lomonosova i Nauchno-issledovatel skiy institut shinnoy promy-shlennosti.

(Tire fabrics)

S/138/61/000/005/006/006 A051/A129

AUTHORS:

Yashunskaya, F. I., Berestnev, V. A., Nagdaseva, I. P.

TITLE:

A creative discussion on the perfecting of chemical fibers used in

the rubber industry

PERIODICAL:

Kauchuk 1 rezina, no. 5, 1961, 54 - 55

TEXT: The discussion which took place on February 20 - 22, 1961, was organized by the Central Board of the VKhO im. D. I. Mendeleyev, Sections for Rubber and Chemical Fibers, the scientific research institutes VNIIV and NIIShP and by the local organizations of the VKhO im. D. I. Mendeleyev at NIIShP. V. V. Krashak, corresponding member of the USSR Academy of Sciences, spoke on the synthesis of new polymers. Some of the most promising new methods of polymer synthesis were given as follows: 1) stereospecific polymerization, 2) grafting and block-copolymerization, 3) cyclopolymerization of non-conjugated diene hydrocarbons, 4) dehydration and recombined polymerization, 5) polycondensation on the interface of phases as a chemical method of direct formation of the ready fiber, 6) hydrolytic polymerization, 7) polycoordination using complex compands with metals, such as beryllium, obtaining claw-type polymers. Professor N. V. Mikhaylov dedicated his

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S/138/61/000/005/006/006 A051/A129

A creative discussion on the perfecting of ...

paper to the characteristics of the most important tasks and directions of scientific development, especially physics and physical chemistry, in the field of polymer fibers. The properties of these fibers include elastomer fibers with an average module, elastic properties, thermal characteristics, non-reversible losses when heated, the molecular weight and the fractional composition. V. A. Kargin and N. V. Mikhaylov calculated the theoretical stability of the maximum-orientated cellulose fibers, which showed values of 300 kg/mm², or about 200 km of breaking length. This theoretical computation is apparently true to some approximation for chemical fibers of any composition. Strength indices have been reached in the laboratories equalling half of the assumed theoretical limit. V. F. Yevstratov spoke on the demands placed on the future cord for tires. The demands on future fabrics for the production of rubber articles were discussed by S. Ye. Strusevich. The use of conveyor belts, flat and edge-type belts in production will increase the durability of articles. Fabrics or threads made of high-index fibers, such as polyether and fortisan, are considered to be advantageous. Hydrate cellulose fibers are included in this group. Of the polyamide fibers tested, anide and enant were found to be the most suitable for the rubber article industry. Fluorine-containing special fibers are necessary for heat-resistant articles for temperatures reaching

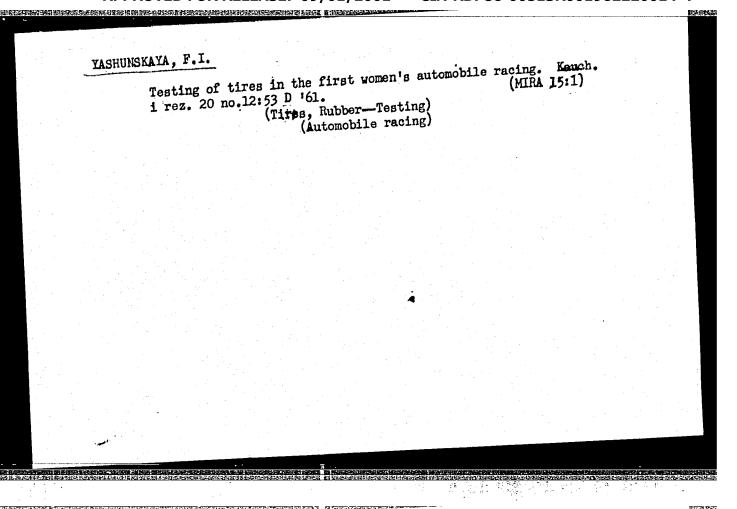
Card 2/3

S/138/61/000/005/006/006 A051/A129

A creative discussion on the perfecting of ...

300°C and more. A discussion was held with respect to the papers presented in which 17 representatives of various scientific organizations and plants in different cities.participated. Lyubimova of the Nauchno-issledovatel skiy institut bumagi (Scientific Research Institute of Paper) (VNIIB) spoke on the methods for improving the quality of cellulose used in the production of viscose fibers of high modules. Epshteyn spoke on the experimental cordless tires, in which the rubber-resin formulations based on the combinations of high-styrene, aniline-formaldehyde or other resins, serve as reinforcing layers. N. N. Lin'kov and I. I. Seleznev supplemented the paper by V. F. Yevstratov by analyzing the functioning of the cord thread in the tire. The elongation or the cord thread by 16 - 20% is considered to be the optimum for tires, but the specific indices are determined by the type of road and the material of the cord thread. F. I. Yashunskaya stated precisely the demands placed on the cord threads. F. F. Badenkov reported that the volume of scientific research work in the field of perfecting the fibers for tire cord lags behind the demands for increasing the quality of the tires.

Card 3/3



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YASHUNSKAYA, Felitsiya Iosifovna, kand. tekhn. nauk; FEYGIN, Il'ya Yefimovich, inzh.; BOGATOVA, V.N., red.; YURCHENKO, D.I., red.leksikograf; AKSEL'ROD, I.Sh., tekhn. red.

PURPLE PERMUNANTE PERMUNCATURE CONTROL PROPERTY OF THE PERMUNCATURE OF THE PERMUNCATUR

English-Russian caoutchouc, rubber and chemical fibres dictionary, Anglo-russkii slovar po kauchuku, rezine i khi-micheskim voloknam. English-Russian caoutchouc, rubber and chemical fibres dictionary. Izd.3., perer. i dop. Moskva, Fizchemical fibres dictionary. Izd.3., perer. i dop. (MIRA 16:6) matgiz, 1962. 260 p. (Rubber--Dictionaries)

(Textile fibers, Synthetic-Dictionaries) (English language-Dictionaries-Russian)

YASHUNSKAYA, F.I., kand.tekhn.nauk

Activity of the D.I.Mendeleev All-Union Chemical Society among
rubber workers. Zhur. VKHO 7 no.4:477-480 '62. (MIRA 15:3)
(Rubber industry workers) (Chemical societies)

YASHUNSKAYA, F.I.

Applied science of rubber by W.J.Naunton, Reviewed by F.I.

Applied science of rubber** 21 no.4:59-60 Ap **162. (MIRA 15:4)

(Rubber) (Naunton, W.J.)

VASHUNSKAYA, F.I. Use of stereoregular rubber for tires in foreign countries. (MIRA 16:6) Kauch.i rez. 22 no.1:32-38 Ja '63. (MIRA 16:6) L. Nauchno-isslemovatel'skiy institut shinnoy promyshlennosti. (Tires, Rubber)

YASHUNSKAYA, F.I.

Proposals for regision and improvement of the terms in some areas of the terminology applied to crude and vulcanized rubber and its characteristics. Kauch.i rez. 22 no.4441-43 (MIRA 16:6) Ap 163.

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.
(Rubber-Terminology)

Basic economic problems of the prospective development of the tire industry. Zhur.VKHO 9 no.1:70-78 '64. (MIRA 17:3)

YASHUNSKAYA, F.1.

Foreign industrial polymeric materials and their components.

Kauch. i rez. 23 no.4: 57 Ap*64 (MIRA 17:7)

YASHUNSKAYA, F.I.; POTAMOSHNEY, S.P.

Methodology for comparing labor productivity in the tire industry.

Kauch. i rez. 24 no.10:45-48 165. (MIRA 18:10)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

WASHUNSKAYA, F.I.

Book reviews and bibliography. Kauch. i rez. 24 no.11:62 '65.

(MIRA 19:1)

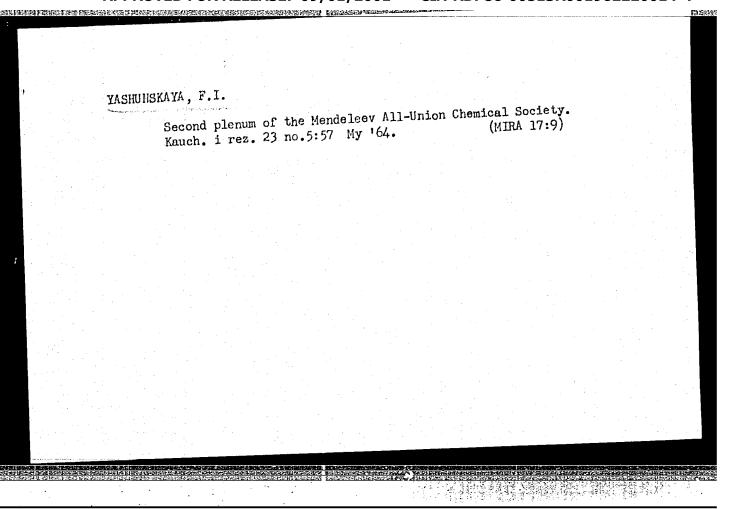
YASHUHSKAYA, F.I.

Razuian-English dictionary for the Fubber and Plantics Industry.
Reviewed by F.I. IAshunskaia. Kauch. 1 rez. 23 no.7362 JL '64.

(Mind 17:8)

YASHUNSKAYA, F.I.; NAZAROVA, M.V.; EPSHTEYN, V.G.; POLYAK, M.A.

In the D.I.Mendeleev All-Union Chemical Society. Kauch. i rez.
(MIRA 18:2)
23 no.12:50-52 D '64.



JD/HM	EWP(t)/EWP(k)/EWP(b) Pf-4/Ps-4 S/0193/64/000/008/0043/0046
T. V. Flactrodes for welding and	surfacing Surfacing Antorior informatali, no. 8, 1964,
TOPIC TAGS: aluminum welding elect	rode, stainless steel welding
new welding electrodes, the OZS 18-9 type stainless steels, the OZS steel structures, and the OZA-1 and steel structures, and the OZA-1 and	i OZA-2 electrodes for welding ald a weld metal which contains 6-10% granular corrosion even in a sensitive can be used for welding chemical ode can be used for welding chemical ode.
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ACCESSION NR: AP4044016 Both electrodes underwent extensive tests and are now used in various

plants of the Soviet Union. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: none

ATD PRESS: 3097 ENCL: 00 SUBMITTED: 00 OTHER: 000

NO REF SOV: 000 SUB CODE: MM

Card 2/2

YASHUESKAYA, G.V.; VAGABOV, I.M.: BIOSHKIK, Ye.G.; BERG, T.V.

Electrodes for welding std brilding-up. Biul. tekn.-ekon. inform.

Gos. nauch.-ical. inst. nauch. i tekh. inform. 17 no.8:/3-46 Ag '64.

(MIRA 17:11)

YASHUNSKAYA, T. V. (Engineer) (Professional welding factory of Moscow Sovnarkhoz)

"Electrodes for welding of stainless steel on alternating current"

Report presented at the regular conference of the Moscow city administration NTO Mashprom, April 1963.

(Reported in Avtomaticheskaya Svarka, No. 8, August 1963, pp 93-95, M. M. Popekhin)

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1	Pu-4 1JF 3) JD/HM/JG/W5 ACCESSION NR: AP4049512 S/0135/64/000/011/0024/00) 25 # ()
	AUTHOR: Yashunskaya, T. V. (Engineer)	39
	TITLE: A-c welding electrodes for 18-9 type steels	() () [2] ()
	SOURCE: Svarochnoye proizvodstvo, no. 11, 1964, 24-25 TOPIC TAGS: rutile coated electrode, filler metal, corrosion resists	unce, me-
	chanical property, AC welding mioblum, careful carbonate, welling	I THE ASSET
	ABSTRACT: The use of a-c and d-c welding currents and a stable but the arc as well as good slag separation from the weld are made possibly rutile coated electrodes. The carbon content in the filler metal is lower than the filler metal is lower than the filler metal is lower than the filler metal depends on the filler method depends o	ered be-
	the new electrodes has a yield point of 30 kg/mm ² and a tensile strength the new electrodes has a yield point of 30 kg/mm ² and a tensile strength the Nb content from 0.8 to 1.8 decreased	th of impact
jan ski	sion tests showed no tendency to <u>cracking</u> , Knife-line attack was, how	
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served in weld joints exposed to 65% boiling nitrogen acid. On the basis of experimental findings the OZI-14 rutile electrode for the a-c welding of 18-9 type steel was developed; the use of this unstabilized rutile electrode assures from 6 to 10% of the ferrite phase in the initial structure of the filler metal. It is characterized by satisfactory welding properties, good hot eracking strength and adequate mechanical properties as well as sufficient corrosive strength in the original state and after a 50 hour holding period at 650C. Extensive industrial tests show the suitability of the new electrode for the welding of parts exposed to a service temperature within the 450-650C range for short periods. Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: Moskovskiy opytnyy svarochnyy zavod (Moscow Experimental Welding Plant)

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POLIAK, S.V., inzh.; Yasistan IV.

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(Slectric symmethus and appliances)

 YASHUNSKIY, E.G., inzh.; GUDOVICH, G.A., inzh.; AFANAS'YEV, P.K., inzh.

Cable lines with 220 kv. rating of the Bratsk Hydrolectric
Power Station. Elek. stat. 35 no.1:58-61 Ja '64.

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